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Application No.	09/734,761	Prepared by	NPB
Examiner-GAU	Church-2882	Date	2/25/04
		No. of queries	3
		Tracking Number	05883/38
		Week Date	12/29/03
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SPECIFICATION	MESSAGE
a. Page Missing	<p>① pro-892/1449 forms: Text/data at the bottom pages of the forms are illegible (see attached). please supply legible/clear copies of the forms.</p> <p>② please verify if original claim 72 (now claim 84) is allowed. it is allowed in the index of claims and text, but not listed or shown as allowed in Notice of Allowability. please verify.</p> <p>③ On Claim pages dated 7/18/03 — data at the bottom pages are illegible (some data was cut-off). please provide new pages with complete data.</p> <p>Thank you initials <i>mm</i></p>
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Application Number	09/734,761
Filing Date	December 13, 2000
First Named Inventor	Cha-Mei TANG
Art Unit	2882
Examiner Name	C. CHURCH
Attorney Docket Number	40797

## U.S. PATENT DOCUMENTS

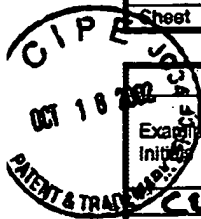
Examiner Initials	Cite No.	Document Number Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CEL		US-6,252,938	6/2001	TANG	
		US-			
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## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number- Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publishers, city and/or country where published	T
CEL		H.E. Johns et al., "The Physics of Radiology", Charles C. Thomas, Springfield, Illinois, 1983, pages 134-166, 734-736.	
		R.E. Henkin et al., "Nuclear Medicine", Mosby, St. Louis, Missouri, 1996. <i>no copy of record</i>	
CEL		Oiga V. Makarova et al., "Microfabrication of Freestanding Metal Structures Released from Graphite Substrates", <u>IEEE</u> , pages 400-402.	
CEL		Cha-Mei Tang et al., "Experimental and Simulation Results of Two-Dimensional Prototype Anti-Scatter Grids for Mammography", World Congress on Medical Physics and Biomedical Engineering, Chicago, 2000.	
CEL		KEVIN FISCHER et al., "Fabrication of Two-Dimensional X-Ray Anti-Scatter Grids for Mammography", Advances in X-Ray Optics, Andreas K. Freund et al., editors, <u>Proceedings of SPIE</u> Vol. 4145, 2001, pages 227-234.	
CEL		John M. Boon, Ph.D. et al., "Grid and Slot Scan Scatter Reduction in Mammography: Comparison by Using Monte Carlo Techniques", <u>Radiology</u> , Vol. 222, February 2002, pages 519-527.	
CEL		Cha-Mei Tang et al., "Precision Fabrication of Two-Dimensional Anti-Scatter Grids, In Medical Imaging 2000: Physics of Medical Imaging", James T. Dobbins III and John M. Boone, editors; <u>Proceedings of SPIE</u> , Vol. 3977, 2000, pages 647-657.	
CEL		Oiga V. Makarova et al., "Development of Freestanding Copper Anti-scatter Grid Using Deep X-ray Lithography".	
Examiner Signature	<i>Church</i>		Date Considered 3/03



## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT  
Cha-Mei TangFILING DATE  
December 13, 2000GROUP  
2876

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CEL	5 7 2 9 5 8 5	3/1998	Pellegrino et al.			
CEL	5 8 1 4 2 3 5	9/1998	Pellegrino et al.			
CEL	5 6 0 6 5 8 9	2/1997	Pellegrino et al.			
CEL	5 9 4 9 8 5 0	9/1999	Tang			
CEL	5 9 6 6 4 2 4	10/1999	Liu			
CEL	5 8 4 7 3 9 8	12/1998	Shahar et al.			
CEL	5 6 2 5 1 9 2	4/1997	Oda et al.			
CEL	5 5 7 6 1 4 7	11/1996	Guckel et al.			
CEL	5 5 2 4 0 4 1	6/1996	Grenier			
CEL	5 4 9 6 6 6 8	3/1996	Guckel et al.			
CEL	5 4 1 8 8 3 3	5/1995	Logan			
CEL	5 3 7 9 3 3 6	1/1995	Kramer et al.			
CEL	5 3 7 8 5 8 3	1/1995	Guckel et al.			
CEL	5 2 3 1 6 5 4	7/1993	Kwasnick et al.			
CEL	5 2 0 6 9 8 3	5/1993	Guckel et al.			
CEL	5 1 9 0 6 3 7	3/1993	Guckel			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

CEL	C.M. Tang, Small Business Information Research Solicitation No. DOE/ER-0686, 21 pages (March 1, 1997). /
CEL	C.M. Tang et al., "Anti-Scattering X-Ray Grid", <u>Microsystem Technologies</u> , pages 187-192 (1998). /
CEL	Larry E. Antonuk et al., "A Large-Area, 97 $\mu$ m Pitch, Indirect-Detection, Active Matrix, Flat-Panel Imager (AMFPI)", <u>Part of the SPIE Conference of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 2-13, (February 1998).</u> /
CEL	Radiological Society of North America, 80 <sup>th</sup> Scientific Assembly and Annual Meeting, November 27-December 2, 1994, page 253. /
CEL	Denny L. Lee et al., "Improved Imaging Performance of a 14 x 17-inch Direct Radiography <sup>TM</sup> System Using Se/TFT Detector", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 14-23 (February 1998).</u> /
CEL	Robert Street et al., "Large Area X-Ray Image Sensing Using a PbI <sub>2</sub> Photoconductor", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 24-32 (February 1998).</u> /

EXAMINER

*Chen*

DATE CONSIDERED

12/01

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Form PTO-1449    U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		ATTY. DOCKET NO. 40797  APPLICANT Cha-Mei Tang  FILING DATE December 13, 2000	SERIAL NO. 09/734,761  GROUP 2876				
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CEC		5 2 6 3 0 7 5	11/1993	McGann et al.			
CEC		4 6 8 8 2 4 2	8/1987	Ema			
CEC		4 4 3 3 4 2 7	2/1984	Barnea			
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CEC		Tom J.C. Bruijns et al., "Technical and Clinical Results of an Experimental Flat Dynamic (Digital) X-ray Image Detector (FDXD) System with Real-Time Corrections", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 33-44, (February 1998).</u>					
CEC		Christophe Chaussat et al., "New CsI/a-Si 17" x 17" X-Ray Flat Panel Detector Provides Superior Detectivity and Immediate Direct Digital Output for General Radiography Systems", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 45-56 (February 1998).</u>					
CEC		Hans Roehrig et al., "Flat-Panel Detector, CCD Cameras and Electron Beam Tube Based Video Camera for Use in Portal Imaging", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 163-174 (February 1998).</u>					
CEC		Herbert D. Zeman et al., "Portal Imaging with a CsI(Tl) Transparent Scintillator X-Ray Detector", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 175-186 (February 1998).</u>					
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CEC		Michael P. André et al., "An Integrated CMOS-Selenium X-Ray Detector for Digital Mammography", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 204-209 (February 1998).</u>					
CEC		Nicholas Petrick et al., "A Technique to Improve the Effective Fill Factor of Digital Mammographic Imagers", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 210-217 (February 1998).</u>					
EXAMINER <i>Chen</i>				DATE CONSIDERED 12/01			
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Cha-Mei Tang		FILING DATE December 13, 2000	
		GROUP 2876			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	

FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)	
LEC	Richard E. Colbeth et al., "Flat Panel Imaging System for Fluoroscopy Applications", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 376-387 (February 1998).</u>
LEC	Akira Tsukamoto et al., "Development of a Selenium-Based Flat-Panel Detector for Real-Time Radiography and Fluoroscopy", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 388-395 (February 1998).</u>
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LEC	Dylan C. Hunt et al., "Detective Quantum Efficiency of Direct, Flat Panel X-ray Imaging Detectors for Fluoroscopy", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 408-417 (February 1998).</u>
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LEC	Edmund L. Baker et al., "A Physical Image Quality Evaluation of a CCD-Based X-ray Image Intensifier Digital Fluorography System for Cardiac Applications", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 430-441 (February 1998).</u>
LEC	Richard L. Weisfield et al., "New Amorphous-Silicon Image Sensor for X-Ray Diagnostic Medical Imaging Applications", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 444-452 (February 1998).</u>
LEC	Toshio Kameshima et al., "Novel Large Area MIS-Type X-Ray Image Sensor for Digital Radiography", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 453-462 (February 1998).</u>

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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)							
CEL		Gary S. Shaber et al., "Clinical Evaluation of a Full Field Digital Projection Radiography Detector", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 463-469 (February 1998).</u> ✓					
CEL		Donald R. Ouimette et al., "A New Large Area X-Ray Image Sensor", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, SPIE Vol. 3336, pages 470-476 (February 1998).</u> ✓					
CEL		David P. Trauernicht and John Yorkston, "Screen Design for Flat-Panel Imagers in Diagnostic Radiology", <u>Part of the SPIE Conference on Physics of Medical Imaging, San Diego, CA, pages 477-485 (February 1998).</u> ✓					
CEL		John Rowlands and Safa Kasap, "Amorphous Semiconductors Usher in Digital X-Ray Imaging", <u>Physics Today, pages 24-30 (November 1997).</u> ✓					
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CEL		I.M. Blevis et al., "Digital Radiology Using Amorphous Selenium and Active Matrix Flat Panel Readout: Photoconductive Gain and Gain Fluctuations", <u>Medical Imaging Research, Sunnybrook Science Center, University of Toronto, 8 pages.</u> ✓					
CEL		Justin M. Henry et al., "Noise in Hybrid Photodiode Array - CCD X-Ray Image Detectors for Digital Mammography", <u>SPIE Vol. 2708, pages 106-115 (February 1998).</u> ✓					
CEL		"DpiX' Digital X-Rays for Diagnosis and Treatment", <u>The Clock, pages 3, 5 and 19-21 (December '97/January '98).</u> ✓					
CEL		Russell C. Hardie et al., "Joint MAP Registration and High-Resolution Image Estimation Using a Sequence of Undersampled Images", <u>IEEE Transactions on Image Processing, Vol. 6 No.12, pages 1621-1632 (December 1997).</u> ✓					
EXAMINER <i>Chun</i>				DATE CONSIDERED 12/01			
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	APPLICANT Cha-Mei Tang	
	FILING DATE December 13, 2000	GROUP 2876

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

CEC	Joseph C. Gillette et al., "Aliasing Reduction in Staring Infrared Imagers Utilizing Subpixel Techniques", <u>Optical Engineering</u> , Vol. 34, No. 11, pages 3130-3137 (November 1995).
CEC	Russell C. Hardie et al., "High-Resolution Image Reconstruction from a Sequence of Rotated and Translated Frames and its Application to an Infrared Imaging System", <u>Optical Engineering</u> , Vol. 37, No. 1, pages 247-260, (January 1998).
CEC	Kai M. Hock, "Effect of Oversampling in Pixel Arrays", <u>Optical Engineering</u> , Vol. 34, No. 5, pages 1281-1288 (May 1995).
CEC	Kenneth J. Barnard et al. "Effects of Image Noise on Submicroscan Interpolation", <u>Optical Engineering</u> , Vol. 34, No. 11, pages 3165-3173 (November 1995).
CEC	Kenneth J. Barnard et al., "Nonmechanical Microscanning Using Optical Space-Fed Phased Arrays", <u>Optical Engineering</u> , Vol. 33, No. 9, pages 3063-3071 (September 1994).
CEC	Gerald C. Holst, <u>Sampling, Aliasing, and Data Fidelity</u> , pages 98-130 (published prior to Feb. 18, 1999).
CEC	Larry E. Antonuk et al., "Demonstration of Megavoltage and Diagnostic X-Ray Imaging with Hydrogenated Amorphous Silicon Arrays", <u>Am. Assoc. Phys. Med.</u> , Vol. 19, No. 6, pages 1455-1466 (Nov/Dec 1992).

EXAMINER	<i>Chen</i>	DATE CONSIDERED	12/01
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES    NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

CEC	E.W. Becker et al., "Fabrication of Microstructures with high aspect ratios and great structural heights by synchrotron Radiation Lithography, Galvanoforming, and Plastic Molding (LIGA Process)," <u>Microelectronics Engineering</u> , Vol. 4 pages 35-56 (1986). ✓
CEC	Dr. P. Bley, "The Liga Process for Fabrication of Three-Dimensional Microscale Structures," <u>Interdisciplinary Sci. Rev.</u> , Vol. 18, pages 267-272 (1993). ✓
CEC	"DARPA Awards Contract for X-Ray Lithography System", <u>Micromachine Devices</u> , Vol. 2, No. 3, page 2 (1997).
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CEC	"X-Ray Lithography Scanners for LIGA", <u>Micromachine Devices</u> , Vol. 1, No. 2, page 8 (1996).
CEC	E.P. Muntz et al., "On the Significance of Very Small Angle Scattered Radiation to Radiographic Imaging at Low Energies", <u>Med. Phys.</u> Vol. 10, pages 819-823 (1983). ✓
CEC	M.J. Yaffe et al., "X-Ray Detectors for Digital Radiography", <u>Phys. Med. Biol.</u> , Vol. 42, pages 1-39 (1997). ✓

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					YES	NO

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

CEL	D.P. Siddons et al., "Precision Machining using Hard X-Rays", <u>Syncrotron Radiation News</u> , Vol. 7, No. 2, pages 16-18 (1994).
CEL	Computer printout of University of Wisconsin Web Site "http://mems.engr.wisc.edu/liga.html", entitled "UW-MEMS-Research-Deep X-ray Lithography" (web site information available to public prior to June 19, 1987 filing date of present application).
CEL	Computer printout of University of Wisconsin Web Site "http://mems.engr.wisc.edu/pc.html" entitled "UW-MEMS-Research-Precision Engineering" (web site information available to public prior to June 19, 1987 filing date of present application).
CEL	Computer printout of University of Wisconsin Web Site "http://mems.engr.wisc.edu/~guckel/homepage.html" (web site information available to public prior to June 19, 1987 filing date of present application).
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CEL	H. Guckel, "NATO Advanced Research Workshop on the Ultimate Limits of Fabrication and Measurement", <u>Proceedings of the Royal Society (Invited Talk/Paper)</u> , pages 1-15 (April 1994).
CEL	H. Guckel et al., "Micromechanics via x-ray assisted processing", <u>Journal of Vacuum Science Technology</u> , pages 2559-2564 (July/August 1994).
CEL	W. Ehrfeld, "Coming to Terms with the Past and the Future", <u>LIGA News</u> , pages 1-3 (January 1995).
CEL	H. Guckel et al., "Micro Electromagnetic Actuators Based on Deep X-Ray Lithography", <u>MIMR '95, Sendai, Japan</u> , (September 27-29, 1995).
CEL	H. Guckel et al., "Micromechanics for actuators via deep x-ray lithography", <u>Proceedings of SPIE, Orlando, Florida</u> , pages 39-47 (April 1994).
CEL	Z. Jing et al., "Imaging characteristics of plastic scintillating fiber screens for mammography", <u>SPIE</u> , Vol. 2708, pages 633-644 (February 1996).
CEL	N. Nakamori et al., "Computer simulation on scatter removing characteristics by grid", <u>SPIE</u> Vol. 2708, pages 617-625 (February 1996).
CEL	P. A. Tompkins et al., "Use of capillary optics as a beam intensifier for a Compton x-ray source", <u>Medical Physics</u> , Vol. 21, No. 11, pages 1777-1784 (November 1994).

EXAMINER <div style="font-family: cursive; font-size: 1.2em; margin-left: 100px;">Chen</div>	DATE CONSIDERED <div style="font-size: 1.2em; margin-left: 100px;">12/01</div>
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)							
CEL		R. Fahrig et al., "Performance of Glass Fiber Antiscatter Devices at Mammographic Energies", <u>Am. Assoc. Phys. Med.</u> , Vol, 21, No. 8, pages 1277-1282 (August 1994).					
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# Notice of References Cited

Application No.

734761

Applicant(s)

Lang

Examiner

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## U.S. PATENT DOCUMENTS

*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
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